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Department of Water and Power the City of Los Angeles

December 2, 1991

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Mr. F. Burnell Cordner
Executive Secretary
Utah Air Conservation Committee
State of Utah
Department of Health
P.O. Box 16690
Salt Lake City, Utah 84116-0690

Dear Mr. Cordner:

Fugitive Dust Control - Vacuum Cleaning System
Intermountain Generating Station (IGS)

This is to submit a notice of intent for IGS's existing Vacuum Cleaning System (System). During a recent internal audit of IGS's air quality systems, it was discovered that a notice of intent was inadvertently not submitted for the System.

The System's main function is to collect fugitive dust from various locations, remove the dust and exhaust the remaining air to the atmosphere. The System consists of five separate stationary vacuum cleaning systems (Attachment A). Areas served by these systems are: the General Services Building; Generation Building, Unit 1; Generation Building, Unit 2; Fabric Filter Building, Unit 1; and Fabric Filter Building, Unit 2.

The System is designed to pneumatically pick up and convey spilled coal, coal dust, limestone, fly ash, dirt, and concentrations of other particles which are 1-1/2 inch or smaller in size. In each vacuum cleaning system, the fugitive dust is transported through material handling piping to the separation and collection equipment. Heavy dust is collected in the primary separator by centrifugal force at a removal efficiency of 98 percent. This material is then dumped into a storage hopper and subsequently discharged to a truck or other mobile handling equipment. The partially cleaned airstream then enters the secondary separator, which consists of cylindrical polypropylene

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filter bags (with minimum air to cloth ratio of 3 to 1), for the final cleaning. The secondary separator has a removal efficiency of 99 percent. The resuction unit, located below the secondary separator, conveys the material back to the primary separator. Finally, the filtered air is exhausted to the atmosphere via the exhauster unit. Material collected on the filters is manually cleaned and disposed. See Attachment B for detailed system description. See Attachment C for detailed description of the System's major components: primary separator, secondary separator and exhauster unit. Attachments D and E are flow diagrams of the vacuum cleaning systems for the Generation Building and Fabric Filter, and General Services Buildings, respectively.

If you have any questions or require further information, please have your staff contact Ms. Jodean M. Giese at (213) 481-8605.

Sincerely,

John W. Schumann

JOHN W. SCHUMANN
Manager of Research and development

Enclosures

c: w/Enclosures
Mr. S. Gale Chapman
Intermountain Power Service Corporation

Ms. Jodean M. Giese